

**Attachment B**

Panel Member Biographies

## **Captain William B. Cotton**

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William Cotton is Principal Consultant for Cotton Aviation Enterprises. Throughout the aviation industry, Capt. Cotton is known as the "Father of Free Flight", the Air Traffic Management operating concept that is currently being developed and implemented to increase the safety, capacity, and operating efficiency in the nation's air traffic control system.

His career includes 33 years with United Airlines, during which time he gained expertise in the areas of air traffic control and cockpit operating systems. While working for United, Capt. Cotton held various positions, including Manager of Air Traffic and Flights Systems and Chairman of the Board for the Aeronautical Telecommunications Network.

As manager for air traffic control and flight systems for 10 years, Capt. Cotton managed numerous projects dealing with new aviation technologies, from concept to implementation. His list of technological advances include achieving the first certification of an Enhanced Ground Proximity Warning System, approval for full fleet implementation of Predictive Windshear weather radar systems, and creating approach criteria and achieving a funded program for installation and operation at SFO on closely spaced runways. As such, Capt. Cotton has had the unique opportunity to assist with the development and implementation of technologies and procedures to improve the operational efficiency and safety of the entire United State's National Airspace System.

Capt. Cotton has a Bachelor of Science in Aeronautical and Astronautical Engineering from the University of Illinois, and a Master's of Science in Aeronautical and Astronautical Engineering from the Massachusetts Institute of Technology (MIT).

## **John R. Foggia**

President

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### **Experience Summary**

John Foggia served as an active duty Air Force pilot flying fighter aircraft in the 1980s, including A-10s and F-5Bs. He is also an Air Force meteorologist, and managed numerous USAF radar and satellite system test and evaluation programs. Mr. Foggia was an MIT Research Scientist developing numerical modeling techniques for radar and satellite remote sensing algorithms. Mr. Foggia held positions as a National Weather Service meteorologist in Minneapolis, as Noise and Acoustics Program Leader for the State of Minnesota, as Manager, Satellite, Noise and Technology Department for the Metropolitan Airports Commission; covering Minneapolis/St. Paul International Airport (MSP) and its six reliever airports, and currently is President, Aviation, Navigation, and Satellite Programs, Inc. Mr. Foggia specializes in global positioning system (GPS) program/project management, Geographic Information Systems (GIS) implementations, radar tracking, and complex statistical analyses. He has published numerous technical papers covering acoustics, fluids, radar, GIS, ANOMS, GPS Program Implementation, and RNP Airspace. Mr. Foggia was DGPS Project Manager for MSP, directing installation and certification of the world's first precision satellite landing system, and instructs GPS, instrument, commercial, and aviation weather courses for the American Academy of Aviation. Mr. Foggia currently is Chief Aviation Technologist for the Chicago Airport System, directing seven next-generation aviation technology implementations at Chicago O'Hare International and Midway Airports, managing NASA and FAA research and development government/industry partnerships. Mr. Foggia is a participating member of the Institute of Navigation (ION), Radio Technical Commission for Aeronautics (RTCA) - various working groups, American Association of Airport Executives (AAAE), Airport Council International (ACI), Aircraft Owners and Pilots Association (AOPA), and the American Meteorological Society (AMS), and has provided GPS/DGPS/Advanced Navigation consulting and training seminars, worldwide.

### **Relevant Work Experience**

#### **Chief Aviation Technologist, O'Hare International Airport/Midway Airport, Chicago Department of Aviation.**

Directs planning, implementation, and application development for seven next-generation aviation technology integrations in the areas of Navigation, Surveillance, and Advanced Procedures Development: O'Hare Local Area Augmentation System (LAAS), Midway LAAS, Aviation Mission-Critical Runway Incursion Program, Ground Vehicle Tracking Program, Airport GIS Implementation, RNP/RNAV Departures Program, Complex Geometry RNAV

Transitions and LAAS Arrivals. These ground-breaking implementations require extensive coordination between FAA Air Traffic, Flight Standards, Airways Facilities, SatNav Program Office, Safe Flight 21/Capstone, and Aviation Research Programs, at local (Tower, TRACON, ARTCC), regional, and national levels. The *Chicago Airport System Strategic Technology Initiative* (CASSTI) programs are being integrated with NASA programs at Langley and Ames Research Centers. Enabling Technologies include LAAS, ADS-B, GIS, and various datalink strategies. Developments in Chicago are being networked with activities in New York, San Francisco, Washington, FAA Tech Center, and elsewhere.

**Geoffrey D. Gosling, Ph.D.**

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Dr. Gosling is an Assistant Research Engineer with the National Center of Excellence for Aviation Operations Research and the Institute of Transportation Studies at the University of California at Berkeley, responsible for the management and conduct of research into a wide variety of air transportation topics, including aviation forecasting, air traffic control, airport planning and operations, and airport ground access. Recent research studies have addressed aviation forecasting methodology, the use of automated airport ground transportation information systems, development of aviation system performance measures, analysis of aviation safety data, and the development of airport and airspace simulation models. Previous research at the Institute has included projects addressing the practicability of screening checked baggage at international airports, the role of new technology in the development of the state aviation system, measures to reduce runway occupancy times, procedures for managing airport gate positions, and the potential use of artificial intelligence in air traffic control automation.

From 1979 to 1987 he was an Assistant Professor in the Civil Engineering Department at the University of California at Berkeley, responsible for teaching undergraduate courses in transportation planning and graduate courses in air transportation, airport planning, project feasibility evaluation, and computer applications. Since 1987 he has taught undergraduate and graduate courses in transportation planning and air transportation. He has also been responsible for organizing University of California Extension courses on Airport Systems Planning and Design, Airport Management, Civil Aviation Security and Airport Ground Access, including giving lectures on such topics as airport system planning, airfield planning and design, airspace analysis, airport access, and airport economics.

Dr. Gosling has a B.Sc. in civil engineering from the University of Birmingham and an M.S., M.Eng. and Ph.D. in transportation engineering from the University of California at Berkeley. He is a Member of both the British Institution of Civil Engineers and the American Society of Civil Engineers. He serves on several committees of the American Society of Civil Engineers and the Transportation Research Board in the area of air transportation, and currently chairs the Transportation Research Board Committee on Aviation System Planning. He also serves on two working groups of the industry/government Global Aviation Information Network and is currently co-chair of Working Group B *Analytical Methods and Tools*.

He has served as a consultant and expert witness in the areas of airport planning and airport ground access to a variety of clients, including the Port Authority of New York and New Jersey, the Los Angeles Department of Airports, the Metropolitan Washington Airports Authority, San Francisco International Airport, the RAND Corporation, the State of California, the Government of Canada, and the Inter American Development Bank. He has also performed technical assistance missions to Brazil and Singapore for the International Civil Aviation Organization, and has instructed in a course on airport planning for the Civil Aviation Authority of China.

Dr. Gosling has published over 80 technical reports, journal papers, conference presentations, and other articles in various areas of transportation, including airport planning, airport ground access, air traffic demand analysis, air traffic control, aviation system performance measures, and the use of aviation safety data. He is the co-author of *Strategic Airport Planning*, published by Elsevier in 1999.